

Title (en)
Turbine wheel

Title (de)
Turbinenrad

Title (fr)
Roue de turbine

Publication
EP 1717414 A1 20061102 (DE)

Application
EP 05405319 A 20050427

Priority
EP 05405319 A 20050427

Abstract (en)
The wheel has several rotor blades connected to a hub along a curved section of the hub, where blades are three-dimensionally curved. The hub has a scalloping contour (11) between two adjacent rotor blades in a region of a rear wall of the hub. A hub section (12) of each rotor blade is placed in relation to scalloping surfaces (F1, F2), such that the surfaces are symmetrically supported by the each blade. The blades are arranged on the hub in such a way that the hub section (12) deviates from a radial direction and is bent towards a pressure side of the blade.

IPC 8 full level
F01D 5/04 (2006.01); **F01D 5/14** (2006.01)

CPC (source: EP KR US)
F01D 5/04 (2013.01 - KR); **F01D 5/048** (2013.01 - EP US); **F01D 5/14** (2013.01 - KR); **F05D 2220/40** (2013.01 - EP US); **F05D 2240/30** (2013.01 - EP US); **F05D 2250/70** (2013.01 - EP US); **F05D 2250/71** (2013.01 - EP US)

Citation (search report)

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- [X] US 3040670 A 19620626 - SCHENCK ROBERT C, et al
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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
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